BRUHATH BANGALURU MAHANAGARA PALIKE
YELAHANKA ZONE

Name of the work : Annual Maintenance and repairs to electrical installation at J C yelahanka Zonal office Building Byatrayanapura in ward no 7

Budget Head .....P0294.....

Division No..... Estimate No..08/16-17 For Rs. **600000.00**

Sl No	Description	Unit	Qty	Rate	Amount
1	Licenced electrician wiremen fitter with tools (Skilled) Rs.13365/Person/Month. Rs.13365*12=1,60,380/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person	1	160380.00	160380.00
2	a).Helper (Electrical) (Semi-Skilled) Rs.11011/Person/Month. Rs.11011*12=132132/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person	1	132132.00	132132.00
3	Annual Maintenance of 180 KVA D.G. Set Existing A.M.C. including of labour charges only for replacing the spare parts and periodically checkup of D.G. AMF panel (Without operator)	Each	1	44000.00	44000.00
4	Supplying & Changing of Alternator AVR.(Automatic Vo	Nos	1	9600.00	9600.00
5	Supplying & Changing of Dynamo repair Kit such as Corbons, Bearings & Diode Etc,.	Nos	1	3100.00	3100.00
6 45/ 6.8	Supplying of Switch disconnector fuse unit (TPN) HRC type (but without HRC fuses). With AC-23A duty and as per IS-13947. 2) 125Amps	Each	2	5060.00	10120.00
7 45/ 6.10	Supplying and fixing HRC fuse link on existing switch fuse base with watt loss as per IS-13703. 3) 125Amps	Each	6	358.00	2148.00
8 78/9.4. 2	Supplying wall mounting fan suitable to operate at single-phase 230v A.C. supply.400mm Sweep	Each	8	2534	20272.00
9 31/4.3 8.38	Supply of 230 V CFL Lamp Holder 2 pin	No	19.00	55.00	1045.00
10 5/2.1.3	Point wiring using Copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Mtr	15	363.00	5445.00

11 6/2.6.1	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP - A.1.5 sqmm	Rmt	95	18.60	1767.00
	4)4 sqmm	P/Mtr	95	42.70	4056.50
12 18/3.1 5.A	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A				
16 18/3.1 5..1	6Amps SP Switch	Nos	75	35.00	2625.00
14 18/3.1 5..4	6Amps 3 way 5 pin Socket	Nos	25	53.00	1325.00
18/3.1 5.9	16 Amps SP switch	No	15.00	89.00	1335.00
15 18/3.1 5.10	16 Amps 3 way 5 pin socket	No	15.00	94.00	1410.00
18/3.1 5.25	32 Amps Bakelite DP	No	10.00	156.00	1560.00
16 18/3.1 5.26	16/6 Amps combined plug and socket wit control switch	No	10.00	268.00	2680.00
17 29/4.3 8.5	2'/4' - 36/40 Watts Fluorescent Tubes: Supplying and fixing of 36W Fluorescent Tube with 36W power consumption with initial lumen of 2750 (3000 deg K / 4000 deg K) with rated avg life of greater than 10000 hrs.	No	60.00	48.00	2880.00
18 29/4.3 8.10	Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes : Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes, Class H Insulated copper wire, Vacuum impregnated high quality with Low loss silicon steel lamination operated on 240V,50Hz supply with IEC 60920 (Safety) & IEC 60921(Performance)	No	19.00	377.00	7163.00
19 30/4.3 8.18	Supplying of of 2 pin/4 pin 18W CFL Lamp	No	35.00	120.00	4200.00
20 31/4.3 8.33.1	Condenser for ceiling fan/MV/SV/MH and other luminaires Upto 4 mfd	No	15.00	77.00	1155.00
21 31/4.3 8.33.2	Upto 8 mfd	No	10.00	102.00	1020.00
22 3.7.4	Stepped Fan Regulator.	Each	10.00	286.00	2860.00

23 25/4.2 9.2	LED Indoor Supplying of 4' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical conditionLED light fighting 4' - 28 watts	Nos	30	1774.00	53220.00
24 46/6.1 3A.2	Supplying and fixing Moulded Case Circuit Breaker (MCCB) Over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with thermal Magnetic/Micro processed release and Earth Fault as per IS-13947. (Icu=Ics). FOUR POLE 6) 125-160Amps 25kA.	Each	2	5406.00	10812.00
25 88/ 12.3	Supplying, installaion, testing & commis-sioning of 12Volts.. AH batteries in poly propylene container for D.G Sets low maintenance batteries. 4) 150 AH, Acid batteries.	Each	1	20600.00	20600.00
26 66/13	Supplying and installation of RUBBER MAT 1 mt X 2mt 10 mm thick. PWD Electrical SR 2010-11	Each	2	1105.00	2210.00
26 66/12	Supplying and fixing of DANGER/NO ADMISSION/NO SMOKING board made out of MS sheet metal with two coats of non corrosive enameled paint. PWD Electrical SR 2007-08	Each	5	75.00	375.00
27 66/8	Supplying of Rubber HAND GLOVES of Electrical quality to 22KV. PWD Electrical SR 2007-08	Pair	2	170.00	340.00
28 48/6.3 6	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C.50 Hz 12/24v D.C.	Each	6	442.00	2652.00
29 64/ 7.21	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes 11) 95 sq mm long barrel	Each	9	149.76	1347.84
	15) 240 sq mm long barrel	Each	6	478.92	2873.52
30 45/6.1 2	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 4) 5)160-200Amps	Each	3	15974.00	47922.00
	3) 60-70 amps	Each	1	4774.00	4774.00
31 47/6.1 6	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and Complete wiring as required confirming IEC 60898. 6) 40-63 Amps TPN	Each	6	1936.00	11616.00
	3) 5-32Amps DP	Each	8	849.00	6792.00
32 35/17. 7.1	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders	Each	30	98.00	2940.00

33 35/17. 8	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Each	8.00	139.00	1112.00
34 35/17. 16	Fixing of ..... Amps TPST / change over switch / Contactor along with neutral link with screws, bolts, nuts and wiring using required capacity wires and circuit labeling.00A to 250A TPST	Each	6.00	387.00	2322.00
35 36/16. 4	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing.1200MM	Each	6.00	630.00	3780.00
36	Misscellenious charges		L/S		33.14
	TOTAL				600000.00

Administrative Sanction for Rs. 6.00 lakhs
Six lakh only

CERTIFICATE

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is accorded under head POOAH. M&R Elc Installation BBMP Buildings

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 .

Registered as EE( ) No. EE/ELE/V2/TS/02/16-17 dt-20-2-17

to conditions contained in enclosed memo

No. PNO-50451

Jr/Asst. Engineer(Elec)

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 600000.00

Rupees .....

Under .....

Registered as EE( ) No. 99

Subject to conditions contained in

enclosed memo EE( ) No.

Dt. Estimate A/ Sanctioned

No.

Dated Rs.

Asst. Exe.Engineer (Elec)

yelhanka zone

Executive Engineer

Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
Y ELHANKA ZONE
BRUHAT BANGALORE MAHANAGARA PALIKE

TECHNICALLY SANCTIONED FOR Rs. 6.00 Lakhs

Rupees Six Lakh only

Under POOAH. M&R to Electrical Installation

Registered as EE( ) No. EE/ELE/V2/TS/03/16-17

Subject to conditions contained in

enclosed memo EE( ) No. AS/02/16-17 dt-22-2-17

Dt. 20-2-17 Estimate A/ Sanctioned

PNO-72973 No.

Dated Rs.

Executive Engineer